FLUOR SPAR.

The Most Wonderful Mineral of Them

The Kentucky Fluor Spar Company, of Marion, Ky, are the miners, the grinders and distributors of theor spar

throughout the United States. They own and control nearly every producing fluor spar mine in the dis-

It is the only district in the United States where it is found in quantity.

It is the only company in America that is able to fill their contracts and orders at the time specified. Three great reserve dumps, at Marion,

at Mexico, and at Crayneville, on the Illinois Central Railroad, enables them to do this.

Good weather, bad weather, muddy roads or freshets make no difference. A contract for a supply of fluor spar

made with the Kentucky is always filled as agreed.

Their business is having a wonderful growth.

Thousands and thousands of tons of this wonderful mineral are shipped to manufacturers from Alabama to Montana, from New York to California.

A dezen mines fully equipped with modern mining machinery create the

Scores of teams do the hauling to the railroad and hundreds of men are at work in the mines.

Still the use of fluor spar is in its. infancy.

When all the blast furnaces take it up and produce more metal and less sing the Kentucky people will simply increase their output.

They will increase their dividends. too, at the same time.

ADVICE TO PROSPECTORS

BY W. C. UREN.

SUPERINTENDENT OF THE "OLD JIM" MINE.

There are many reasons why miners should pay close attention to the topography of the country and its relations to the ore deposits. In locating lines or zones of fracture, topography is an important aid. For instance, a valley is very often the expression of a line, or a zone of fracture. Many of our streams follow these lines. In many districts it is a common rule, though not invariably so, that the largest and richest bodies of ore are found in depressions, or "draws" as they are called: and, hence, they are mine. as well as the Hodge, is well up on a high divide, although it is noticeare in hard ground. The "Old Jim" and are generally very valuable. Carbonate Mine is an example to the contrary; this great ore, body being lo-

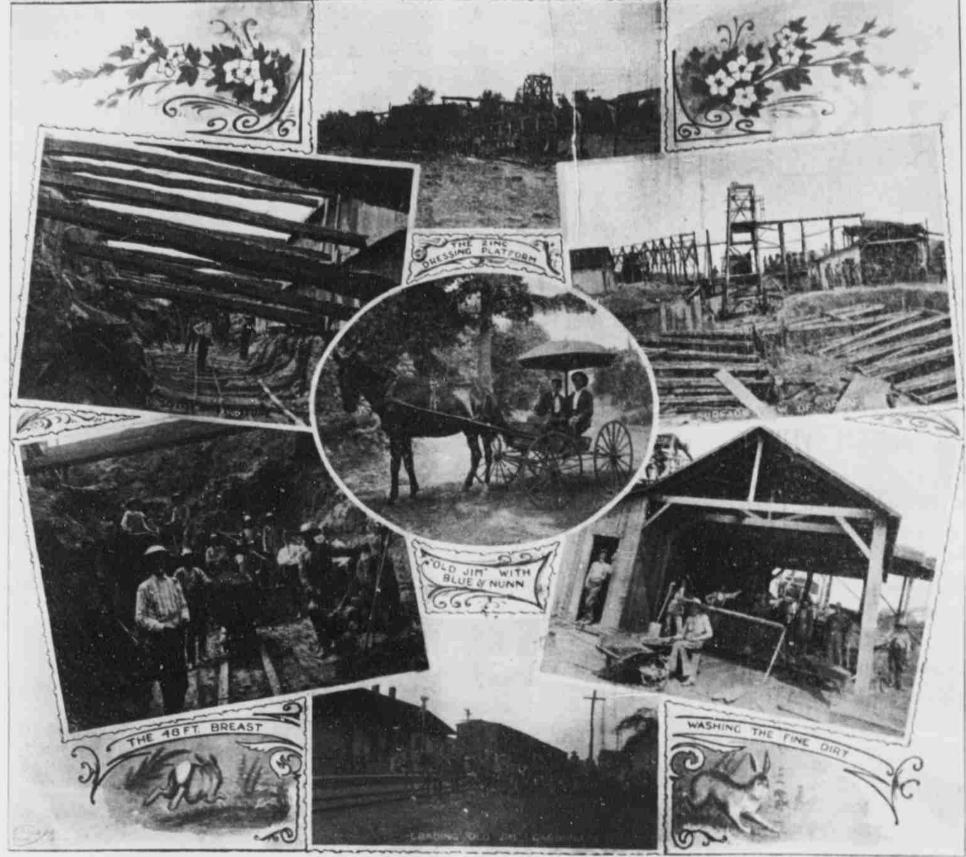
cated in a depression. Much ore has been developed by following the miner's simple rule to prospect the slopes of the smaller valleys. The ores are generally found in the soft, broken, or crushed ground, through which the waters now circulate, or have circulated. The common vertical arrangement of the ores with galena and fluor spar above, and zinc blende dominant below, constitutes a valuable guide in the search for zinc ores. A large body of galena in shallow diggings usually means a large body of zinc blende at or below the water level.

The character of the matrix or gangue ing waters have been very active, and, it is useless to look for zinc blende in quantity, though silicite or carbonate of zinc may be found, and galena may be common. When the red clay gives



W. C. UHEN.

and to follow them. The ore has been and reduction works. Technically, the counties, and at times assert themselves the to the property was raised and all deposited by underground waters, and that is not a smelter, zinc being volatile on the surface. The Rosi Claire fluor work was suspended. As soon as the is usually in greatest quantity where the wave exposed to heat, the fumes are care spar mine has proven the most persistflow has been most important. The ried into condensers and are precipitated ent ore bearer of any yet exploited. It



THE CELEBRATED CARBONATE MINE, "OLD JIM," NEAR MARION.

cuss in detail the methods of mining stone. and milling our ores. It is proper to That is the one great drawback to the have given a good, strong percentage in state, however, that no mechanical pro- erection of such works in the mining lead and zine. Surface deposits of fluor cess will ever be devised for separating fields. two different ores of the same specific The Mineral Point plant produce a in Rock, Illinois. richness; all grades from barren rock to white an area of fully 4,000 across.

are produced in milling 100 tons of mine | most welcome guests that visit our city. in the river of sufficient height to float | Indeed it is quarried in great mass dirt. The four per cent. of ore, at the present prices, is about the lowest that can be made to pay expenses. The usual run of ores will average from 5 to 10 per cent. Anything above the latter is is an important guide. If made up Joplin type can be built in this district at a general price of from \$7,000 to 88,000. The opening and equipping of a mine will cost, approximately, \$10,000. Under average conditions the cost of running a mine and mill ranges between 8200 and 8500 per week.

MINERAL POINT ZING CO.

The Great Oxid- Producing Plant in Wisconein.

Mineral Point, Wisconsin, has become well known to the miners of zinc ores throughout the United States: Cars of this ore are daily headed Mineral Point way from New Mexico., Kansas, Missouri, Arkansas, Kentucky and Illinois, It is the greatest oxide of zinc. The Lead, Zinc and Fluor Spar Pros- ceivers of fluor spar are not apt to deproducing plant in the country. Oxide of zinc, or zinc white as the painters call it, is a pure white pigment heretofore largely used for tibe inside finishing of residences and business houses, but latterly chosen for outside work on account. Ohio river, Fords. Ferry being the Kenof its permanence of color in any cli- tucky landing with Hardin county, His., place to black selvage, zinc blende may mate. The carbonate from Marion is on the opposite shore. The openings be expected to appear and galena to be utilized in these great works and comes made in the various shafts in our main come subordinate. Iron pyrite, or back to us in part in kegs and barrels; ore veins have caused con iderable pros-"Mundic," while not valuable in itself, not the brown color that it has when pecting in both Pope and Hardin counis closely associated with the ores, and shippest, but a beautiful pure white, ties. The latter county is noted for not the finding of it is usually favorable. ready for the painters' use. The pro- having a railroad within its borders, the In searching for ore, or the continual duction of this oxide is attended with only case of the kind in Illinois. In searching for ore, or the continual duction of this oxide is attended with only case of the kind in linnois.

tion of ore bodies, it is advisable to practically the same difficulties that are the fluor spar by mechanical method.

There's not much doubt but that our shipped and reloaded on cars at Joppa, of the best kind of granding fluor spar. the fluor spar by mechanical method. study the course of the water channels met with in other branches of smelting fissures extend under the river into these Illinois. Some contention about the ti-

pector into the area where the condi- Ores of zinc from one district alone to the northern steel works during that tions are favorable for the deposition of are scarcely ever suitable for the pro-period. Within the past few months lead ore. The course of these channels will duction of a first class article of oxide, and zinc ores have been discovered in a usually gives the direction of the main There is a tinge of color that is unex number of places; at times the galena more favored for prospecting. Deep belt. Where secondary enrichments are pected in the ores from one section has been in massive form and looked Our Celebrated Carbonate of Zinc water is specially important. The ores It is like the various ores that go to bethtown some gentlemen of this city, which have been secondarily enriched make our best steel; probably six or with others from Paducah, have com able that such ore bodies are deep and represent the grand prizes in mining, seven different countries will be drawn menced work in an old abandoned shaft upon for the iron, the manganese, the at the same time sinking another some No attempt will be made here to discooke and coal, spiegelesen and the lime distance from the original. Samples

from this section-selected, of course spar have also been uncovered near Cave-

gravity, as in the case of fluor spar and daily average of 110 tons of zinc oxide. The notable difficulties in mining More than 8,0x1(12) pounds of carbon competent to handle the output as well zinc blende. The ores vary widely in This immense output would cover with "across the river," is experienced in atc have already been shipped to the as financially able to place the property shipping the product. Of course with a smelters practically clean blende is represented. The gentlemen connected with this floating dock and all the essentials of a The mill runs will vary from 4 to 30 per company a component part of the New water shipping plant that would be over in a large open cut, somewhat like a cent., that is 4 to 30 tons of zinc blende Jersey Zinc company, are among the come, provided the water would remain great stone quarry.

Two great veins of rarisonans of zincaggregating sixty eight feet in width what a vein of ore should be. Both ores constitutes the old Jim mine.

somewhat below the water level where calcite, prevail in the drifts and stopes. zine blende, or "jack," much it, and continnes downward.

Millions of positids more are in sight

like the building stones for a sky staper.

The Old Jim to the very intest or sation is the underground world. It is unique.

creasing the bank account of its two owners by leaps and hound; And they deserve it.

For years they shoul alone in having confidence in the ultimate meses of

their prospect work, It was long tire-one and money how

It was not by fush or chance, by a rabbit's loot or the two of a peach tree. It was plock and perseverance, great

big stick to it affronce, that discovered the 'Old Jing," The pictures show the machinery, the

dressing platform the wasters and the A photograph absold "Old Jim." the

horse that the mire was named after, John W. Hilus and Clem S. Nunn, the

owners, are in the wagon. This engraving is an almost exact re-

They deserved it.

Crittenden County Zinc, Lead ty. With a most conservative manage and Fluorspar Company.

and Fluorspar company own lands in stone of the whole superstructure, a the immediate vicinity of the well cording to Mr. Hearne, rests upon the

the same general character of the Mem- the three marketable minerals, Galen phis Engine, pump, hoist and other Zinc Blend and Fleorspar. The mining machinery have been purchased ore and fluor par being so nearly a and will be installed immediately, in specific gravity the problem has in flow has been most important. The ried into condensers and are precipitated ent ore bearer or any yet exploited. It greatest flow is along the trunk channels. In the form of white particles, something has been worked perhaps a score of years the company of the best talent process. represent the company.

of that valuable and much was: Shipments were commenced by the party last week and will be proconstant. The Galena Fluor Spar m

MARION ZING COMPANY.

The Northern and Southern Interedts

The Marion Zine company,

rated in the states of Kentucky

orning, is one of our more recent

sitions, Mr. C. S. Knight, forms

facturing establishment of the

Halake Co., is its President. C. Griffith, late of Griffith Brow.

sale millinery, Indianapolis, vi

dent: Dr. J. J. Clark of this est.

The producing properties of the

pany are largely located in La-

county, near Lola. Several

have been made on carbonat-

veins, and a large production :-

retary.

president of the great electrical ---

Merged.

what is known as the Riley posome six miles from the Illingian raviroad, is a remarkable producores and fluor spar. The reinal ternal is of great width, the level ing disseminated in and three theor Spar more regularly and than in any mine in the destrithe possible exception of the !mine, and very likely as depth |in the Riley the showing will be much greater. The entire also any zinc ores in this property is if advantage, as its presence makenotable difference in the prospector HEIST SPAT.

The value of such a property at the Riley, carrying as it does gulena ub -- in fluor spar, lies in the fact that book erals are of marketable value, as the little if any waste will occur.

The Marion Zine company have lease and option many tracts of inviting are adjacent to or a continuation of the best known veins in the district.

COLUMBIA MINING CO.

The Western Kentucky Passes the Columbia Mine Over.

Articles of incorporation were filed in the Secretary of States' office July and to incorporate the Columbia Minicompany, with a capital of \$100,000 S. H. Snow, of Mineral Point, Wis., T. U. Jones of Chicago, and R. W. Bingham of Louisville, are the incorporators. The two first gentlemen are intimately nected with the Mineral Point Zinc pany, Mr. Bingham being a widknown lawyer and capitalist of Lou-

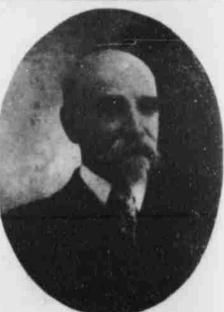
The Columbia mine, which those in pers cover, has been our standard of of lead and ores of zinc, massive and This great body of eurbonians extends disseminated throughout fluor spar and

> Now that this property has failed into the hands of men who are technically in the very best mining condition, we expect that a few months time will and the product of this fine property to our already growing list of shipping prop-

EACLE FLUOR SPAR CO.

What is more for the paper. It is in Operating Zinc, Lead and Fluor Spar Properties.

The Cullen mine near Sak m, below ing to the Eagle Fluor Spar company Wheeling, West Virginia, is possibly the best known property in Livingston cou-



CAPT, THOS. B. B. HAASE.

ment, directed by its energetic predent, Mr. D. Garth Hearne, haste les The Crittenden County Lead, Zinc been made slowly but surely. The car known Memphis mine, a great producer ability to separate the zinc blende from The vein has been opened, disclosing The vein at the Cullen is very strong able. The president of the company

ZINC WORKS, AT MINERAL POINT, WISCONSIN,

pects.

OVER THE RIVER.

Marion is within twelve miles of the ing features of the localities mentioned.

and has supplied more or less fluor spar be resumed.

it, and that it would not rise high enough to cover the entire dock.

The Ohio river is a treacherous stream as regards the height of water. The repend upon such facilities for a regular production of the scene, the day the carsupply of this great fluxing material bonate was first uncovered. hence the investor should consider the What is a little wonderful, everybody drawbacks as well as the more promis is pleased at their good fortune.

Pittsburg Mining Company.

Extensive preparations were made and a large amount of mining work was performed on a fluor spar vein near Dycusburg. Several barge loads were